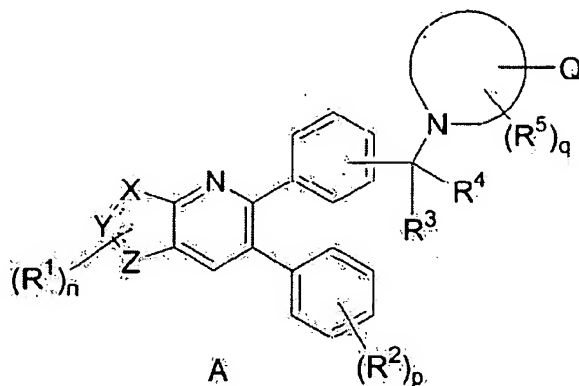


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Original). A compound of the Formula A:

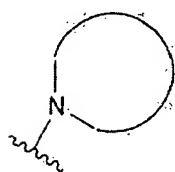


wherein:

a is 0 or 1; b is 0 or 1; m is 0, 1 or 2; n is 0, 1, 2 or 3; p is 0, 1 or 2; q is 0, 1, 2 or 3; r is 0 or 1; s is 0 or 1; t is 2, 3, 4, 5 or 6;

X, Y and Z are independently selected from: C, N, S or O provided that at least one of X, Y or Z is N, S or O;

dashed line represents an optional double bond;



is heterocyclyl;

Q is selected from: $-NR^6R^7$, aryl and heterocyclyl, said aryl and heterocyclyl is optionally substituted with one to three R^2 ;

R^1 is independently selected from: 1) $(C=O)_aO_bC_1-C_{10}$ alkyl, 2) $(C=O)_aO_b$ aryl, 3) C_2-C_{10} alkenyl, 4) C_2-C_{10} alkynyl, 5) $(C=O)_aO_b$ heterocyclyl, 6) $(C=O)_aO_bC_3-C_8$ cycloalkyl, 7) CO_2H , 8) halo, 9) CN, 10) OH, 11) $O_bC_1-C_6$ perfluoroalkyl, 12) $O_a(C=O)_bNR^6R^7$, 13) $NR^c(C=O)NR^6R^7$, 14) $S(O)_mR^a$, 15) $S(O)_2NR^6R^7$, 16) $NR^cS(O)_mR^a$, 17) oxo, 18) CHO, 19) NO_2 , 20) $NR^c(C=O)O_bR^a$, 21) $O(C=O)O_bC_1-$

C₁₀ alkyl, 22) O(C=O)O_bC₃-C₈ cycloalkyl, 23) O(C=O)O_baryl, 24) O(C=O)O_b-heterocycle, 25) H, and 26) O_a-P=O(OH)₂, said alkyl, aryl, alkenyl, alkynyl, heterocyclyl, and cycloalkyl optionally substituted with one or more substituents selected from R^Z;

R² is independently selected from: 1) (C=O)_aO_bC₁-C₁₀ alkyl, 2) (C=O)_aO_baryl, 3) C₂-C₁₀ alkenyl, 4) C₂-C₁₀ alkynyl, 5) (C=O)_aO_b heterocyclyl, 6) (C=O)_aO_bC₃-C₈ cycloalkyl, 7) CO₂H, 8) halo, 9) CN, 10) OH, 11) O_bC₁-C₆ perfluoroalkyl, 12) O_a(C=O)_bNR⁶R⁷, 13) NR^c(C=O)NR⁶R⁷, 14) S(O)_mR^a, 15) S(O)₂NR⁶R⁷, 16) NR^cS(O)_mR^a, 17) CHO, 18) NO₂, 19) NR^c(C=O)O_bR^a, 20) O(C=O)O_bC₁-C₁₀ alkyl, 21) O(C=O)O_bC₃-C₈ cycloalkyl, 22) O(C=O)O_baryl, 23) O(C=O)O_b-heterocycle, and 24) O_a-P=O(OH)₂, said alkyl, aryl, alkenyl, alkynyl, heterocyclyl, and cycloalkyl optionally substituted with one, two or three substituents selected from R^Z;

R³ and R⁴ are independently selected from: H, C₁-C₆-alkyl and C₁-C₆-perfluoroalkyl, or

R³ and R⁴ are combined to form -(CH₂)_t- wherein one of the carbon atoms is optionally replaced by a moiety selected from O, S(O)_m, -N(R^b)C(O)-, and -N(COR^a)-;

R⁵ is independently selected from: 1) (C=O)_aO_bC₁-C₁₀ alkyl, 2) (C=O)_aO_baryl, 3) C₂-C₁₀ alkenyl, 4) C₂-C₁₀ alkynyl, 5) (C=O)_aO_b heterocyclyl, 6) (C=O)_aO_bC₃-C₈ cycloalkyl, 7) CO₂H, 8) halo, 9) CN, 10) OH, 11) O_bC₁-C₆ perfluoroalkyl, 12) O_a(C=O)_bNR⁶R⁷, 13) NR^c(C=O)NR⁶R⁷, 14) S(O)_mR^a, 15) S(O)₂NR⁶R⁷, 16) NR^cS(O)_mR^a, 17) oxo, 18) CHO, 19) NO₂, 20) O(C=O)O_bC₁-C₁₀ alkyl, 21) O(C=O)O_bC₃-C₈ cycloalkyl, and 22) O_a-P=O(OH)₂, said alkyl, aryl, alkenyl, alkynyl, heterocyclyl, and cycloalkyl optionally substituted with one or more substituents selected from R^Z;

R⁶ and R⁷ are independently selected from: 1) H, 2) (C=O)O_bR^a, 3) C₁-C₁₀ alkyl, 4) aryl, 5) C₂-C₁₀ alkenyl, 6) C₂-C₁₀ alkynyl, 7) heterocyclyl, 8) C₃-C₈ cycloalkyl, 9) SO₂R^a, 10) (C=O)NR^b, 11) OH, and 12) O_a-P=O(OH)₂, said alkyl, cycloalkyl, aryl, heterocyclyl, alkenyl, and alkynyl is optionally substituted with one or more substituents selected from R^Z, or

R⁶ and R⁷ can be taken together with the nitrogen to which they are attached to form a monocyclic or bicyclic heterocycle with 4-7 members in each ring and optionally containing, in addition to the nitrogen, one or more additional heteroatoms selected from N, O and S, said monocyclic or bicyclic heterocycle optionally substituted with one or more substituents selected from R^Z;

R^Z is selected from: 1) (C=O)_rO_s(C₁-C₁₀)alkyl, 2) O_r(C₁-C₃)perfluoroalkyl, 3) (C₀-C₆)alkylene-S(O)_mR^a, 4) oxo, 5) OH, 6) halo, 7) CN, 8) (C=O)_rO_s(C₂-C₁₀)alkenyl, 9) (C=O)_rO_s(C₂-C₁₀)alkynyl,

10) $(C=O)_rO_s(C_3-C_6)cycloalkyl$, 11) $(C=O)_rO_s(C_0-C_6)alkylene-aryl$, 12) $(C=O)_rO_s(C_0-C_6)alkylene-heterocyclyl$, 13) $(C=O)_rO_s(C_0-C_6)alkylene-N(R^b)_2$, 14) $C(O)R^a$, 15) $(C_0-C_6)alkylene-CO_2R^a$, 16) $C(O)H$, 17) $(C_0-C_6)alkylene-CO_2H$, 18) $C(O)N(R^b)_2$, 19) $S(O)_mR^a$, 20) $S(O)_2N(R^b)_2$, 21) $NR^c(C=O)O_bR^a$, 22) $O(C=O)O_bC_1-C_{10}alkyl$, 23) $O(C=O)O_bC_3-C_8cycloalkyl$, 24) $O(C=O)O_baryl$, 25) $O(C=O)O_b-heterocycle$, and 26) $O_a-P=O(OH)_2$; said alkyl, alkenyl, alkynyl, cycloalkyl, aryl, and heterocyclyl is optionally substituted with up to three substituents selected from R^b , OH, $(C_1-C_6)alkoxy$, halogen, CO_2H , CN, $O(C=O)C_1-C_6alkyl$, oxo, $N(R^b)_2$ and $O_a-P=O(OH)_2$;

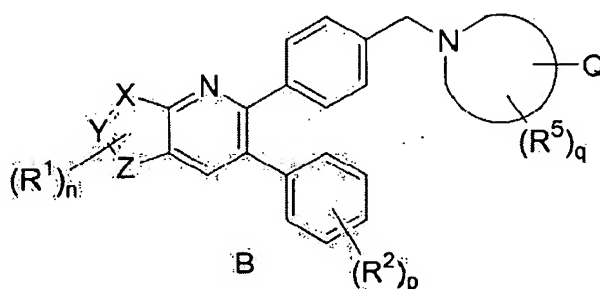
R^a is: substituted or unsubstituted $(C_1-C_6)alkyl$, substituted or unsubstituted $(C_2-C_6)alkenyl$, substituted or unsubstituted $(C_2-C_6)alkynyl$, substituted or unsubstituted $(C_3-C_6)cycloalkyl$, substituted or unsubstituted aryl, $(C_1-C_6)perfluoroalkyl$, 2,2,2-trifluoroethyl, or substituted or unsubstituted heterocyclyl; and

R^b is: H, $(C_1-C_6)alkyl$, substituted or unsubstituted aryl, substituted or unsubstituted benzyl, substituted or unsubstituted heterocyclyl, $(C_3-C_6)cycloalkyl$, $(C=O)OC_1-C_6alkyl$, $(C=O)C_1-C_6alkyl$ or $S(O)_2R^a$;

R^c is selected from: 1) H, 2) $C_1-C_{10}alkyl$, 3) aryl, 4) $C_2-C_{10}alkenyl$, 5) $C_2-C_{10}alkynyl$, 6) heterocyclyl, 7) $C_3-C_8cycloalkyl$, and 8) $C_1-C_6perfluoroalkyl$, said alkyl, cycloalkyl, aryl, heterocyclyl, alkenyl, and alkynyl is optionally substituted with one or more substituents selected from R^Z , or

or a pharmaceutically acceptable salt or a stereoisomer thereof;

2. (Original) The compound according to Claim 1 of the Formula B:

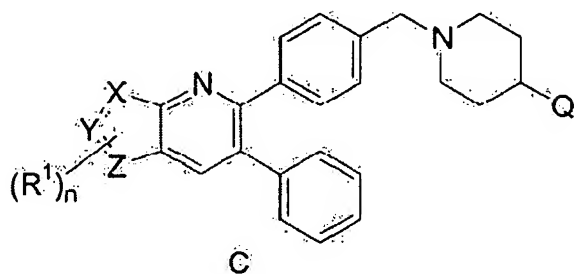


wherein:

R^2 is independently selected from: 1) C_1-C_6alkyl , 2) aryl, 3) heterocyclyl, 4) CO_2H , 5) halo, 6) CN, 7) OH, 8) $S(O)_2NR^6R^7$, and 9) $O_a-P=O(OH)_2$; said alkyl, aryl and heterocyclyl optionally substituted with one, two or three substituents selected from R^Z ;

or a pharmaceutically acceptable salt or a stereoisomer thereof;

3. (Original) The compound according to Claim 2 of the Formula C:



wherein:

Q is heterocyclyl, said heterocyclyl is optionally substituted with 1 to 3 R_Z;

or a pharmaceutically acceptable salt or a stereoisomer thereof.

4. (Original) A compound which is selected from:

1-{1-[4-(3-amino-5-phenyl-1H-pyrazolo[3,4-b]pyridin-6-yl)benzyl]piperidin-4-yl}-1,3-dihydro-2H-benzimidazol-2-one;

1-{1-[4-(3-amino-1-methyl-5-phenyl-1H-pyrazolo[3,4-b]pyridin-6-yl)benzyl]piperidin-4-yl}-1,3-dihydro-2H-benzimidazol-2-one;

1-(1-{4-[3-amino-1-(2-morpholin-4-ylethyl)-5-phenyl-1H-pyrazolo[3,4-b]pyridin-6-yl]benzyl}piperidin-4-yl)-1,3-dihydro-2H-benzimidazol-2-one;

1-(1-{4-[3-amino-1-(2-hydroxyethyl)-5-phenyl-1H-pyrazolo[3,4-b]pyridin-6-yl]benzyl}piperidin-4-yl)-1,3-dihydro-2H-benzimidazol-2-one;

1-[1-(4-{3-amino-1-[2-(1H-imidazol-4-yl)ethyl]-5-phenyl-1H-pyrazolo[3,4-b]pyridin-6-yl]benzyl]piperidin-4-yl]-1,3-dihydro-2H-benzimidazol-2-one;

1-methyl-6-(4-{[4-(2-methyl-1H-benzimidazol-1-yl)piperidin-1-yl]methyl}phenyl)-5-phenyl-1H-pyrazolo[3,4-b]pyridin-3-amine;

9-{1-[4-(3-amino-1-methyl-5-phenyl-1H-pyrazolo[3,4-b]pyridin-6-yl)benzyl]piperidin-4-yl}-9H-purin-6-amine;

1-methyl-6-(4-{[4-(2-methyl-1H-benzimidazol-1-yl)piperidin-1-yl]methyl}phenyl)-5-phenyl-1H-pyrazolo[3,4-b]pyridin-3-ol;

N-ethyl-N'-[1-methyl-6-(4-{[4-(2-oxo-2,3-dihydro-1H-benzimidazol-1-yl)piperidin-1-yl]methyl}phenyl)-5-phenyl-1H-pyrazolo[3,4-b]pyridin-3-yl]urea;

N-[1-methyl-6-(4-{[4-(2-oxo-2,3-dihydro-1H-benzimidazol-1-yl)piperidin-1-yl]methyl}phenyl)-5-phenyl-1H-pyrazolo[3,4-b]pyridin-3-yl]acetamide;

Methyl-3-amino-6-(4-{[4-(6-fluoro-1H-benzimidazol-2-yl)piperidin-1-yl]methyl}phenyl)-5-phenylfuro[2,3-b]pyridine-2-carboxylate;
 5-(4-{[4-(2-methyl-1H-benzimidazol-1-yl)piperidin-1-yl]methyl}phenyl)-6-phenyl-1,3-dihydro-2H-imidazo[4,5-b]pyridin-2-one;
 5-(4-{[4-(2-methyl-1H-benzimidazol-1-yl)piperidin-1-yl]methyl}phenyl)-6-phenyl-1H-[1,2,3]triazolo[4,5-b]pyridine; and
 5-(4-{[4-(2-Methyl-1H-benzimidazol-1-yl)piperidin-1-yl]methyl}phenyl)-6-phenyl-1H-imidazo[4,5-b]pyridine;

or a pharmaceutically acceptable salt or a stereoisomer thereof.

5. (Original) The TFA salt of a compound according to Claim 1 which is:

1-{1-[4-(3-amino-5-phenyl-1H-pyrazolo[3,4-b]pyridin-6-yl)benzyl]piperidin-4-yl}-1,3-dihydro-2H-benzimidazol-2-one;
 1-{1-[4-(3-amino-1-methyl-5-phenyl-1H-pyrazolo[3,4-b]pyridin-6-yl)benzyl]piperidin-4-yl}-1,3-dihydro-2H-benzimidazol-2-one;
 1-(1-{4-[3-amino-1-(2-morpholin-4-ylethyl)-5-phenyl-1H-pyrazolo[3,4-b]pyridin-6-yl]benzyl}piperidin-4-yl)-1,3-dihydro-2H-benzimidazol-2-one;
 1-(1-{4-[3-amino-1-(2-hydroxyethyl)-5-phenyl-1H-pyrazolo[3,4-b]pyridin-6-yl]benzyl}piperidin-4-yl)-1,3-dihydro-2H-benzimidazol-2-one;
 1-[1-(4-{3-amino-1-[2-(1H-imidazol-4-yl)ethyl]-5-phenyl-1H-pyrazolo[3,4-b]pyridin-6-yl]benzyl)piperidin-4-yl]-1,3-dihydro-2H-benzimidazol-2-one;
 1-methyl-6-(4-{[4-(2-methyl-1H-benzimidazol-1-yl)piperidin-1-yl]methyl}phenyl)-5-phenyl-1H-pyrazolo[3,4-b]pyridin-3-amine;
 9-{1-[4-(3-amino-1-methyl-5-phenyl-1H-pyrazolo[3,4-b]pyridin-6-yl)benzyl]piperidin-4-yl}-9H-purin-6-amine;
 1-methyl-6-(4-{[4-(2-methyl-1H-benzimidazol-1-yl)piperidin-1-yl]methyl}phenyl)-5-phenyl-1H-pyrazolo[3,4-b]pyridin-3-ol;
 N-ethyl-N'-[1-methyl-6-(4-{[4-(2-oxo-2,3-dihydro-1H-benzimidazol-1-yl)piperidin-1-yl]methyl}phenyl)-5-phenyl-1H-pyrazolo[3,4-b]pyridin-3-yl]urea;
 N-[1-methyl-6-(4-{[4-(2-oxo-2,3-dihydro-1H-benzimidazol-1-yl)piperidin-1-yl]methyl}phenyl)-5-phenyl-1H-pyrazolo[3,4-b]pyridin-3-yl]acetamide; and
 Methyl-3-amino-6-(4-{[4-(6-fluoro-1H-benzimidazol-2-yl)piperidin-1-yl]methyl}phenyl)-5-phenylfuro[2,3-b]pyridine-2-carboxylate;

or a stereoisomer thereof.

6. (Original) A compound according to Claim 4 which is selected from:

1-{1-[4-(3-amino-5-phenyl-1H-pyrazolo[3,4-b]pyridin-6-yl)benzyl]piperidin-4-yl}-1,3-dihydro-2H-benzimidazol-2-one;
N-ethyl-N'-[1-methyl-6-(4-{[4-(2-oxo-2,3-dihydro-1H-benzimidazol-1-yl)piperidin-1-yl]methyl}phenyl)-5-phenyl-1H-pyrazolo[3,4-b]pyridin-3-yl]urea;
Methyl-3-amino-6-(4-{[4-(6-fluoro-1H-benzimidazol-2-yl)piperidin-1-yl]methyl}phenyl)-5-phenylfuro[2,3-b]pyridine-2-carboxylate;
5-(4-{[4-(2-methyl-1H-benzimidazol-1-yl)piperidin-1-yl]methyl}phenyl)-6-phenyl-1,3-dihydro-2H-imidazo[4,5-b]pyridin-2-one;
5-(4-{[4-(2-methyl-1H-benzimidazol-1-yl)piperidin-1-yl]methyl}phenyl)-6-phenyl-1H-[1,2,3]triazolo[4,5-b]pyridine; and
5-(4-{[4-(2-Methyl-1H-benzimidazol-1-yl)piperidin-1-yl]methyl}phenyl)-6-phenyl-1H-imidazo[4,5-b]pyridine;

or a pharmaceutically acceptable salt or a stereoisomer thereof.

7. (Original) A pharmaceutical composition comprising a pharmaceutical carrier, and dispersed therein, a therapeutically effective amount of a compound of Claim 1.

8. (Original) A pharmaceutical composition comprising a pharmaceutical carrier, and dispersed therein, a therapeutically effective amount of a compound of Claim 4.

9-18. (Canceled)